UNITED STATES DEPARTMENT OF COMMERCE
United States Patent and Trademark Office
Address: COMMISSIONER FOR PATENTS
P.O. Box 1450
Alexandria, Virginia 22313-1450
www.uspto.gov

NOTICE OF ALLOWANCE AND FEE(S) DUE

026418

7590

04/07/2004

REED SMITH, LLP ATTN: PATENT RECORDS DEPARTMENT 599 LEXINGTON AVENUE, 29TH FLOOR NEW YORK, NY 10022-7650 EXAMINER ELKASSABGI, HEBA

ART UNIT

2834

DATE MAILED: 04/07/2004

FIRST NAMED INVENTOR ATTORNEY DOCKET NO. CONFIRMATION NO.

10/056,477

APPLICATION NO.

01/23/2002

Yukinobu Yumita

500615.20154

5624

PAPER NUMBER

TITLE OF INVENTION: SMALL HYDROELECTRIC POWER GENERATOR

APPLN. TYPE	SMALL ENTITY	ISSUE FEE	PUBLICATION FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	NO	\$1330	\$300	\$1630	07/07/2004

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. PROSECUTION ON THE MERITS IS CLOSED. THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THIS STATUTORY PERIOD CANNOT BE EXTENDED. SEE 35 U.S.C. 151. THE ISSUE FEE DUE INDICATED ABOVE REFLECTS A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE APPLIED IN THIS APPLICATION. THE PTOL-85B (OR AN EQUIVALENT) MUST BE RETURNED WITHIN THIS PERIOD EVEN IF NO FEE IS DUE OR THE APPLICATION WILL BE REGARDED AS ABANDONED.

HOW TO REPLY TO THIS NOTICE:

I. Review the SMALL ENTITY status shown above.

If the SMALL ENTITY is shown as YES, verify your current SMALL ENTITY status:

A. If the status is the same, pay the TOTAL FEE(S) DUE shown above.

B. If the status is changed, pay the PUBLICATION FEE (if required) and twice the amount of the ISSUE FEE shown above and notify the United States Patent and Trademark Office of the change in status, or

If the SMALL ENTITY is shown as NO:

A. Pay TOTAL FEE(S) DUE shown above, or

B. If applicant claimed SMALL ENTITY status before, or is now claiming SMALL ENTITY status, check the box below and enclose the PUBLICATION FEE and 1/2 the ISSUE FEE shown above.

□ Applicant claims SMALL ENTITY status. See 37 CFR 1.27.

II. PART B - FEE(S) TRANSMITTAL should be completed and returned to the United States Patent and Trademark Office (USPTO) with your ISSUE FEE and PUBLICATION FEE (if required). Even if the fee(s) have already been paid, Part B - Fee(s) Transmittal should be completed and returned. If you are charging the fee(s) to your deposit account, section "4b" of Part B - Fee(s) Transmittal should be completed and an extra copy of the form should be submitted.

III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Mail Stop ISSUE FEE unless advised to the contrary.

IMPORTANT REMINDER: Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.

PART B - FEE(S) TRANSMITTAL

Complete and send this form, together with applicable fee(s), to: Mail

Mail Stop ISSUE FEE Commissioner for Patents P.O. Box 1450 Alexandria, Virginia 22313-1450

or <u>Fax</u> (703) 746-4000

INSTRUCTIONS: This form should be used for transmitting the ISSUE FEE and PUBLICATION FEE (if required). Blocks 1 through 4 should be completed where appropriate. All further correspondence including the Patent, advance orders and notification of maintenance fees will be mailed to the current correspondence address as indicated unless corrected below or directed otherwise in Block 1, by (a) specifying a new correspondence address; and/or (b) indicating a separate "FEE ADDRESS" for maintenance fee notifications.

maintenance lee notification						
CURRENT CORRESPONDEN	CE ADDRESS (Note: Legibly mark-up	with any corrections or use Block	(l)	Note: A certificate of Fee(s) Transmittal.	of mailing can only be used f This certificate cannot be used nal paper, such as an assignm	or domestic mailings of the for any other accompanying
026418	7590 04/07/2004			have its own certific	nal paper, such as an assignm ate of mailing or transmission.	ent or formal drawing, mu
REED SMITH,	LLP			C	ertificate of Mailing or Tran	smission
	RECORDS DEPARTM	MENT		I hereby certify that	this Fee(s) Transmittal is being	g deposited with the Unite
599 LEXINGTON	NAVENUE, 29TH FLC	OOR		addressed to the M	this Fee(s) Transmittal is being with sufficient postage for fir all Stop ISSUE FEE address	rst class mail in an envelop above, or being facsimil
NEW YORK, NY	10022-7650			transmitted to the US	SPTO, on the date indicated be	low.
						(Depositor's name
						(Date
APPLICATION NO.	FILING DATE	FIRST N	AMED INVE	NTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/056,477	01/23/2002	Yul	Yukinobu Yumita		500615.20154	5624
·	SMALL HYDROELECTRIC				300013.20134	3024
THE OF INVENTION, S	MALL HIDROELECIRIC	POWER GENERATOR				
APPLN. TYPE	SMALL ENTITY	ISSUE FEE	P	UBLICATION FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	NO	\$1330	l	\$300	\$1630	07/07/2004
			-		Ţ.050	07/07/2004
	MINER	ART UNIT				
	ABGI, HEBA	2834		290-054000		
1. Change of correspondence CFR 1.363).	ce address or indication of "Fo	`		n the patent front page		
_	lence address (or Change of C			3 registered patent natively, (2) the name		
Address form PTO/SB/1	22) attached.	firm	(having as	a member a registered	d attorney or 2	
Tree Address" indicat	ion (or "Fee Address" Indicat or more recent) attached. Use	ion iorm		ames of up to 2 regints. If no name is list		
Number is required.	or more recently attached. Ost		be printed.		3	
3. ASSIGNEE NAME ANI	O RESIDENCE DATA TO B	E PRINTED ON THE PA	TENT (print	or type)		
PLEASE NOTE: Unless	s an assignee is identified bel	ow, no assignee data will	appear on th	e patent. Inclusion of	assignee data is only appropri	ate when an assignment ha
(A) NAME OF ASSIGN	ed to the USPIO of is being s	submitted under separate co	over. Comple	etion of this form is NO TY and STATE OR CO	Of a substitute for filing an ass	ignment.
(3) 33 33 2 31 1100101		(b) Resid	DENCE. (CI	IT and STATE OR C	JONIKI)	
Please check the appropriate	e assignee category or catego	ries (will not be printed on	the natent):	☐ individual ☐	corporation or other private gr	roup entity 🚨 governmen
4a. The following fee(s) are			ent of Fee(s):		ou-po-and-res cuites private g	Education and Soverimines
☐ Issue Fee		☐ A ch	eck in the an	nount of the fee(s) is e	nclosed.	
☐ Publication Fee		☐ Payr	nent by credi	t card. Form PTO-203	8 is attached.	
☐ Advance Order - # of	Copies	The	Director is I	hereby authorized by	charge the required fee(s), or	credit any overpayment, to
Director for Patents is reque	ested to annly the Issue Fee a			umber	issue fee to the application ide	
					issue fee to the application fde	nuned above.
(Authorized Signature)		(Date)			·	
MOTE TO I	1.0.111 / 0.0.11			1		
other than the applicant; interest as shown by the re	d Publication Fee (if require a registered attorney or age cords of the United States Pa	ed) will not be accepted fent; or the assignee or ot tent and Trademark Office	from anyone her party in			
This collection of information	ation is required by 37 CFR	1 311 The information is	required to	1		
application. Confidentialit estimated to take 12 minu	by the public which is to fi y is governed by 35 U.S.C. 1 tes to complete, including ga	22 and 37 CFR 1.14. This thering, preparing, and su	collection is bmitting the			
case. Any comments on	m to the USPTO. Time will the amount of time you r	equire to complete this	form and/or			
Patent and Trademark	this burden, should be sent to Office. U.S. Denartment of	o the Chief Information (Officer, U.S.			
22313-1450. DO NOT S	SEND FEES OR COMPLE for Patents, Alexandria, Virg	TED FORMS TO THIS	ADDRESS.			
Under the Paperwork Recollection of information u	eduction Act of 1995, no punless it displays a valid OME	ersons are required to resonant of the control number.	espond to a			



United States Patent and Trademark Office

UNITED STATES DEPARTMENT OF COMMERCE United States Patent and Trademark Office Address: COMMISSIONER FOR PATENTS P.O. Box 1450 Alexandria, Virginia 22313-1450 www.uspto.gov

APPLICATION NO). FII	LING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.		
10/056,477	0	1/23/2002	Yukinobu Yumita	500615.20154 5624			
026418	7590	04/07/2004		EXAM	INER		
REED SMITH, LLP ATTN: PATENT RECORDS DEPARTMENT				ELKASSABGI, HEBA			
		UE, 29TH FLOOR		ART UNIT	PAPER NUMBER		
NEW YORK,	NY 10022-7	7650		2834 DATE MAILED: 04/07/2004			

Determination of Patent Term Adjustment under 35 U.S.C. 154 (b)

(application filed on or after May 29, 2000)

The Patent Term Adjustment to date is 17 day(s). If the issue fee is paid on the date that is three months after the mailing date of this notice and the patent issues on the Tuesday before the date that is 28 weeks (six and a half months) after the mailing date of this notice, the Patent Term Adjustment will be 17 day(s).

If a Continued Prosecution Application (CPA) was filed in the above-identified application, the filing date that determines Patent Term Adjustment is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) system (http://pair.uspto.gov).

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (703) 305-1383. Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at (703) 305-8283.

			M			
:	Application No.	Applicant(s)				
	10/056,477	YUMITA, YUKINOBU				
Notice of Allowability	Examiner	Art Unit				
	Heba Elkassabgi	2834				
The MAILING DATE of this communication appeal All claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT R of the Office or upon petition by the applicant. See 37 CFR 1.313	(OR REMAINS) CLOSED in this app or other appropriate communication IGHTS. This application is subject to	olication. If not include will be mailed in due	ed course. THIS			
1. This communication is responsive to 12/29/2003.						
2. The allowed claim(s) is/are <u>1-6</u> .						
3. The drawings filed on 29 December 2003 are accepted by	the Examiner.					
 4. Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some* c) None of the: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No 3. Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)). 						
* Certified copies not received:						
Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application. THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.						
5. A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.						
6. CORRECTED DRAWINGS (as "replacement sheets") mus	st be submitted.					
(a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached						
1) hereto or 2) to Paper No./Mail Date	1) ☐ hereto or 2) ☐ to Paper No./Mail Date					
(b) including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date						
Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).						
7. DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.						
Attachment(s) 1. ☑ Notice of References Cited (PTO-892)	5. ☐ Notice of Informal P	atent Application (DTC	1.152\			
2. Notice of Draftperson's Patent Drawing Review (PTO-948)	6. Interview Summary	•	7-102)			
3. ☐ Information Disclosure Statements (PTO-1449 or PTO/SB/0	Paper No./Mail Dat	è ´				
Paper No./Mail Date 4. Examiner's Comment Regarding Requirement for Deposit						
of Biological Material	8. ⊠ Examiner's Stateme9. □ Other	nt of Reasons for Allo	wance			

Application/Control Number: 10/056,477

Art Unit: 2834

DETAILED ACTION

Priority

Acknowledgment is made of applicant's claim for foreign priority under 35 U.S.C. 119(a)-(d). The certified copy has been filed in parent Application No. 10/056477, filed on 12/29/2003.

Drawings

The drawings were received on 12/29/2003. The examiner having the –Prior Art—tittles accepts these drawings. The drawing objection in the prior office action is withdrawn in light of applicant's amendment of the drawings.

Allowable Subject Matter

The following is an examiner's statement of reasons for allowance:

Prior art does not disclose a small hydroelectric power generator having a main case with a fluid path, a hydraulic turbine that is arranged in a fluid pathway and turns as a predetermined flow of a fluid passes by, and a rotator connected to a hydraulic turbine to rotate together. The rotator acts as a rotor portion opposed to a stator portion, so that power generated by rotating a rotor portion that is relative to the stator portion as fluid passes by, and in combination with a plurality of ejecting openings provided in a fluid pathway outside the rotational path of the hydraulic turbine for reducing an area of a flow of a fluid and for ejecting the fluid. Furthermore, the hydraulic

Application/Control Number: 10/056,477

Art Unit: 2834

turbine has a rotational center portion and blade members, which are hit by the fluid ejected from ejecting openings. In which blade members are formed such that an inner peripheral end portion is joined to a rotational center portion and outer peripheral point portions that extend toward the vicinity of the ejecting openings and each of the outer peripheral point portions of the blade members are formed in an edge-shape.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Heba Elkassabgi whose telephone number is (571) 272-2023. If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Darren Schuberg can be reached on (571) 272-2044. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306. Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should

Art Unit: 2834

1

you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Heba Y. Elkassabgi

Nicholas Ponomarenko Primary Examiner Technology Contar 2000

Technology Center 2800